

	Type	Hits	Search Text
1	BRS	27792	yarn.ti,ab,bsum,clm.
2	BRS	5	((ring or wrap) near2 (spin or spinning or spun)) with ((thermoplastic or binder or binding or bonding) near2 (fiber or filament))
3	BRS	5	yarn.ti,ab,bsum,clm. and (((ring or wrap) near2 (spin or spinning or spun)) with ((thermoplastic or binder or binding or bonding) near2 (fiber or filament)))
4	BRS	1	((ring or wrap) near2 (spin or spinning or spun)) with (commingle or commingling or commingled)

	DBs	Time Stamp
1	USPAT	2000/09/21 10:17
2	USPAT	2000/09/21 10:36
3	USPAT	2000/09/21 10:20
4	USPAT	2000/09/21 10:37

DOCUMENT-IDENTIFIER: US 4807430 A

TITLE: Thread wrapping apparatus

DEPR:

In operation, it can be seen that a given wrap spinning station can be loaded with a fiber and a supply of filament binder material and then easily brought up to operating speed merely by progressively advancing the frequency of operation of the oscillator 51 since the speed of each pair of the drafting rolls will be scaled to the speed of the spindle 11, the actual rate of speed of each of the rolls being individually preselectable by means of the scaling values provided by the respective pulse rate scaler circuits 65-67.

DOCUMENT-IDENTIFIER: US 3899867 A

TITLE: Method and apparatus for forming helically wrapped yarns

DEPR:

As indicated in said copending application, it is advantageous to form the yarn Y by wrapping a continuous filament binder strand about a core strand of substantially parallel, untwisted staple fibers, because such a yarn may be produced efficiently at substantially higher speeds than is the case with respect to spun yarns produced on ring spinning machines having rings and travelers for effecting the spinning operation, it being well known that the production rate is limited by the mechanical limitations of the speed of a ring traveler in its movement around the respective spinning ring. On the other hand, as explained earlier herein, because of the drafted core strand S being of staple fibers in untwisted condition, it is preferred that the free or upper end of spindle 20 is so positioned adjacent delivery rolls 11 that the staple fibers of the drafted strand S are engaged by and extend from the delivery rolls 11 of drafting unit 10 while their leading ends are being wrapped by binder strand 31 adjacent the ingress end of the respective hollow spindle 20.

DOCUMENT-IDENTIFIER: US 5528895 A
TITLE: Spinning apparatus with twisting guide surface

DEPR:

Since spun yarn produced by a spinning device in accordance with the present invention generally has a relatively large number of binding fibers, the strength and appearance of the spun yarn compares favorably with spun yarn produced by a ring spinning frame. Since the needle holder has a generally smooth shape without step-like transitions and defines a comparatively longer fiber bundle passage having a sectional area decreasing toward the front at a substantially fixed rate, the production of vortices in the swirling air current is essentially eliminated, the fiber bundle is not disheveled, and the fiber bundle is able to move smoothly together with the swirling air in the spinning device. Consequently, spun yarn produced by a spinning device in accordance with the present invention has a more uniform, less uneven appearance, a higher strength and more twists than that produced by an equivalent known spinning device.